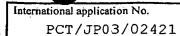


International application No.
PCT/JP03/02421

	SIFICATION OF SUBJECT MATTER				
Int.Cl ⁷ H01L29/792					
According	to International Patent Classification (IPC) or to both n	ational classification and IPC	•		
	OS SEARCHED				
Minimum d	documentation searched (classification system followed	by classification symbols)	-		
int.	.Cl ⁷ H01L21/8247, 29/792				
	•	•			
					
	tion searched other than minimum documentation to the uyo Shinan Koho 1922–1996	e extent that such documents are included. Jitsuyo Shinan Toroku Ko			
	i Jitsuyo Shinan Koho 1971-2003				
Electronic o	data base consulted during the international search (name	e of data base and where practicable s	earch terms used)		
2.000.0	The second secon	or one one one one			
	•	•			
		·			
C. DOCU	MENTS CONSIDERED TO BE RELEVANT	·			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
Х	US 6335554 B1 (KABUSHIKI KAI	SHA TOSHIBA).	1-9,11-13		
Y	01 January, 2002 (01.01.02),	, , , , , , , , , , , , , , , , , , ,	10		
	Columns 6 to 8; Figs. 1 to 3				
	& JP 2001-156188 A Pages 5 to 7; Figs. 1 to 9				
	11900 0 00 7, 1190. 1 00 9	·			
Х	JP 63-204770 A (Oki Electric	Industry Co., Ltd.),	1-8,11		
	24 August, 1988 (24.08.88), All pages				
	(Family: none)				
X US 4881108 A (KABUSHIKI KAISH 14 November, 1989 (14.11.89),			1-9,11-13		
	Full text; Figs. 1 to 6				
	& JP 63-237580 A				
	Full text; Figs. 1 to 6				
× Furth	er documents are listed in the continuation of Box C.	See patent family annex.	<u> </u>		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
"E" considered to be of particular relevance understand the principle or theory underlying the invention document but published on or after the international filing "X" document of particular relevance; the claimed invention cannot be					
"L" docum	ent which may throw doubts on priority claim(s) or which is	considered novel or cannot be consi step when the document is taken alo			
		"Y" document of particular relevance; the considered to involve an inventive s	e claimed invention cannot be		
"O" document referring to an oral disclosure, use, exhibition or other		combined with one or more other su	ich documents, such		
means combination being obvious to a person skilled in the art "P" document published prior to the international filing date but later than the priority date claimed comment member of the same patent family					
Date of the actual completion of the international search Date of mailing of the international search report					
T 3 · M	ay, 2003 (13.05.03)	27 May, 2003 (27.	U5.U3)		
<u> </u>					
	nailing address of the ISA/ nese Patent Office	Authorized officer			
Facsimile N	O	Telephone No.			





C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relev	Relevant to claim No	
X	US 5838041 A (KABUSHIKI KAISHA TOSHIBA), 17 November, 1998 (17.11.98), Full text; Figs. 1 to 17 & JP 9-97849 A Full text; Figs. 1 to 17		1-8,11-13
Y	US 6329247 B1 (NEC CORP.), 11 December, 2001 (11.12.01), Full text; all drawings & JP 2001-44395 A Full text; all drawings		10
Y	US 6316317 B1 (NEC CORP.), 13 November, 2001 (13.11.01), Full text; all drawings & JP 2000-269361 A Full text; all drawings		10
P,X	JP 2002-164446 A (Sony Corp.), 07 June, 2002 (07.06.02), Pages 13 to 17; Figs. 1 to 7 (Family: none)		1-13
			`.

Form PCT/ISA/210 (continuation of second sheet) (July 1998)